



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.224

Amendment 1

(08/97)

SERIES X: DATA NETWORKS AND OPEN SYSTEM
COMMUNICATION

Open System Interconnection – Connection-mode
protocol specifications

Information technology – Open Systems
Interconnection – Protocol for providing the
connection-mode transport service

**Amendment 1: Relaxation of class
conformance requirements and expedited
data service feature negotiation**

ITU-T Recommendation X.224 – Amendment 1

(Previously CCITT Recommendation)

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INTERNATIONAL STANDARD 8073

ITU-T RECOMMENDATION X.224

**INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION –
PROTOCOL FOR PROVIDING THE CONNECTION-MODE
TRANSPORT SERVICE**

AMENDMENT 1

**Relaxation of class conformance requirements and expedited data
service feature negotiation**

Summary

This Amendment introduces optional enhancements to the protocol for providing the connection-mode Transport Service (see ITU-T Rec. X.224 | ISO/IEC 8073), to take into account the requirements of OSI users who do not have a need for full implementation. This Amendment permits relaxation of the strict conformance requirements to allow an implementation which will never need to support expedited data, or need to operate over connection-mode network service, to still be conformant without necessarily implementing either or both of these facilities.

Source

The ITU-T Recommendation X.224, Amendment 1 was approved on the 9th of August 1997. The identical text is also published as ISO/IEC International Standard 8073.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

**INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION –
 PROTOCOL FOR PROVIDING THE CONNECTION-MODE
 TRANSPORT SERVICE**

AMENDMENT 1

**Relaxation of class conformance requirements and expedited data
 service feature negotiation**

Introduction

This Amendment introduces optional enhancements, to take into account the requirements of potential OSI users who do not have a need for full implementation, by permitting relaxation of the strict conformance requirements to allow implementations which will never need to support expedited data, or never need to operate over CONS, to still be conformant to ITU-T Rec. X.224 | ISO/IEC 8073 without necessarily implementing either or both of these facilities.

1) Clause 8

In Table 6, in the row of cells starting with Expedited data transfer, replace m and x by o:

2) Subclause 12.2.3.2

Replace the existing text of item b) with:

- b) expedited data, if option is selected (see 6.11);

3) Subclause 14.2

Replace the existing text with:

14.2 The system shall implement either:

- a) 1) for conformance to ITU-T Rec. X.224: Class 0; or
- 2) for conformance to ISO/IEC 8073: Class 0, or Class 2, or both.

Each of these implies operation over CONS.

or:

- b) Class 4 over CLNS.

or:

- c) Both a) and b).

NOTE – Case c) provides full interworking possibility with other transport implementations. Cases a) and b) are restricted to operation in their respective network layer environments. Care should therefore be taken when choosing to implement only a) or b).

4) Subclause 14.3

Replace existing text with:

14.3 If the system implements class 3, or class 4 operating over CONS, it shall also implement class 2.

5) Subclause 14.4

In Table 9, in the row of cells starting with Expedited data transfer, replace mandatory with optional.

6) Subclause C.6.2

In the row for Index C4L, Status column, replace ISO:C2:O with ISO:O.1 and replace CCT:N/A with CCT:O.

7) Subclause C.9.2

Replace the row for Index T1F11 with:

T1F11	Expedited data transfer when operating over CONS (Network normal)	6.11.1	O	Yes No
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8) Subclause C.9.3

Replace the row for Index T2F12 with:

T2F12	Expedited data transfer when operating over CONS (Network normal)	6.11.1	O	Yes No
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9) Subclause C.9.4

Replace the row for Index T3F11 with:

T3F11	Expedited data transfer when operating over CONS (Network normal)	6.11.1	O	Yes No
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10) Subclause C.9.5

Delete row for Index T4F18.

Delete row for Index T4F26.

Insert new row before Index T4F28:

T4F34	Expedited data transfer (Network normal)	6.11.1, 6.11.2	O	Yes No
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11) Subclause C.10

In the rows for Index ST11, ST12, ST15 and ST16, under the Status column, in each, replace C1 OR C2 OR C3 OR C4 OR C4L:M by T1F11 OR T2F12 OR T3F11 OR T4F34:M.

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